ELSEVIER

Journal of Microbiological Methods 26 (1996) 295–296

Journal of Microbiological Methods

Contents of Volume 26

Nos. 1,2, July 1996

Application of perfluorocarbon tracers to microbial sampling in subsurface environments using mud-rotary and air-rotary drilling techniques
J.P. McKinley and F.S. Colwell (USA) 1

Measurement of filamentous cyanobacteria by image analysis
A.E. Walsby and A. Avery (UK) 11

Comparison of direct PCR and PCR amplification after DNA extraction for the detection of viable enterotoxigenic *Escherichia coli* in laboratory microcosms
Z. Tamanai-Shacoori, A. Jolivet-Gougeon and M. Cormier (France) 21

A sensitive method for naphthalene oxygenase assay in whole cells
V. Riis, D. Miethe and W. Babel (Germany) 27

Isolation and fractionation of cell envelope from the extreme thermo-acidophile *Sulfolobus acidocaldarius*
D.W. Grogan (USA) 35

Detection of *Campylobacter* PCR DNA by hybridization with a microtiter plate immobilized RNA probe
M. Lamoureux, I. Fliss, S. Messier, B. Blais, R. Holley and R.E. Simard (Canada) 45

Sterilization and inhibition of microbial activity in soil
J.T. Trevors (Canada) 53

PCR-based technique for the detection of bacteria in semen and urine
J.-M. Lacroix, K. Jarvi, S.D. Batra, D.M. Heritz and M.W. Mittelman (Canada) 61

Improvement in electroporation efficiency for *Lactobacillus plantarum* by the inclusion of high concentrations of glycine in the growth medium
K. Thompson and M.A. Collins (UK) 73

Improvement of the polymerase chain reaction to detect *Escherichia coli* Shiga-like toxin II gene from clinical isolates
A.E. Parma, M.R. Viñas and M.E. Sanz (Argentina) 81

Polymerase chain reaction amplification and restriction analysis of the ribosomal DNA of *Olpidium radicale* isolates
L. Jiang and C. Hiruki (Canada) 87

Polymerase chain reaction for detection of *Escherichia coli* strains producing cytotoxic necrotizing factor type 1 and type 2 (CNF1 and CNF2)
M. Blanco, J.E. Blanco, J. Blanco, M.P. Alonso, C. Balsalobre, M. Mouriño, C. Madrid and A. Juárez (Spain) 95

Molecular differentiation of bacteria by PCR amplification of the 16S-23S rRNA spacer
P. Scheinert, R. Krausse, U. Ullmann, R. Söller and G. Krupp (Germany) 103

Cloning and transfer of sucrase operon in *Escherichia coli*
M. Mačor, J. Turňa and J. Grones (Slovak Republic) 119

Detection of *Escherichia coli* in potable water using indirect impedance technology
S. Timms, K.O. Colquhoun and C.R. Fricker (UK) 125

Influence of bacterial age and pH of lysis buffer on type of nucleic acid isolated
M. Uyttendaele, R. Schukkink, B. van Gemen and J. Debevere (Belgium, The Netherlands) 133

A novel method for isolation of magnetic bacteria without magnetic collection using magnetotaxis
T. Sakaguchi, N. Tsujimura and T. Matsunaga (Japan) 139

High efficiency of transformation of *Proteus mirabilis* with a pUC19 derivative vector directs the expression and secretion of the *Bacillus subtilis* α-amylase gene
B.L. Fernandes and S.O.P. da Costa (Brazil) 147

A novel fluorometric method for evaluation of the postantibiotic effect of antibacterial drugs on mastitis-causing *Staphylococcus aureus* and *Escherichia coli*
W. Fang (Finland) 151

Development of an artificial biofilm to study the effects of a single microcolony on mass transport
M. Abrahamson, Z. Lewandowski, G. Geesey, G. Skjåk-Bræk, W. Strand and B.E. Christensen (USA, Norway) 161

Preparation of yeast cells for surface analysis by XPS
P.B. Dengis and P.G. Rouxhet (Belgium) 171

A critical appraisal of the Phene-Plate biochemical fingerprinting system for epidemiological subtyping of *Salmonella typhimurium*
S.L.W. On and D.L. Baggesen (Denmark) 185

In situ continuous detection of bacteria on the surface of solid medium with a Bulk Acoustic Wave-Impedance Sensor
L. Deng, L.L. Bao, Z.Y. Yang, L.H. Nie and S.Z. Yao (P.R. China) 197

A simple quantitative assay for the killing of in vitro culture cells by *Ehrlichia canis* infection
J. Ma and M.W. Nicholl (USA) 205

No. 3, August 1996

Obituary
S.E. Coleman (USA) iii

Editorial
D.C. White (USA) 213

A general purpose program for obtaining Most Probable Number tables
J.M. González (USA, Spain) 215

Detection of bacterial contamination, including *Bacillus* spores, in dry growth media and in milk by identification of their 16S rDNA by polymerase chain reaction
J. Sperveslage, E. Stackebrandt, F.W. Lembke and C. Koch (Germany) 219

A graph-theory method to establish serological relationships within a bacterial taxon, with example from *Porphyromonas gingivalis*
P. Casgrain, P. Legendre, J.-L. Sixou and C. Mouton (Canada, France) 225

Simple method for the measurement of the hydrogenotrophic methanogenic activity of anaerobic sludges
J.D. Coates, M.F. Coughlan and E. Colleran (USA, Ireland) 237

Applicability of combined amplified ribosomal DNA restriction analysis (ARDRA) patterns in bacterial phylogeny and taxonomy
M. Heyndrickx, L. Vauterin, P. Vandamme, K. Kersters and P. De Vos (Belgium) 247

Major metalloprotease gene of *Serratia marcescens* is conserved and provides a molecular typing method to differentiate clinical isolates
P. Jayaratne (Canada) 261

Elemental analysis for biomass determination in the presence of insoluble substrates
D.P. Moser, J.R. Brozowski and K.H. Nealson (USA) 271

Physical stabilization and confocal microscopy of bacteria on roots using 16S rRNA targeted, fluorescent-labeled oligonucleotide probes
S.J. Macnaughton, T. Booth, T.M. Embley and A.G. O'Donnell (UK) 279

Short communication

A co-cultivation method developed for recovery of animal and bacterial viruses from biomedical waste solids
N. Anderson, P.L. Seyfried and F.W. Doane (Canada) 287

Author Index of Volume 26 291

Subject Index of Volume 26 293

Contents of Volume 26 295